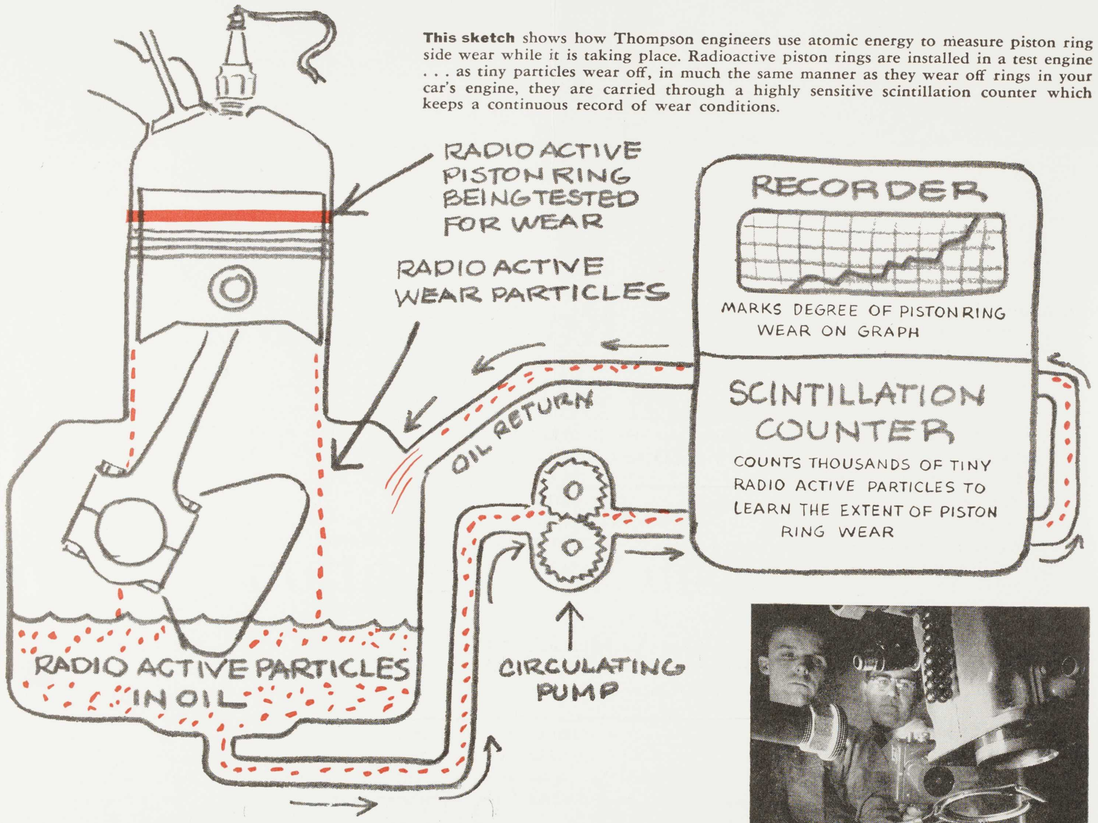
THOMPSON RADIOACTIVE TESTS REVEAL ENGINE WEAR—POINT WAY TO LONGER CAR LIFE

This sketch shows how Thompson engineers use atomic energy to measure piston ring side wear while it is taking place. Radioactive piston rings are installed in a test engine . . . as tiny particles wear off, in much the same manner as they wear off rings in your car's engine, they are carried through a highly sensitive scintillation counter which keeps a continuous record of wear conditions.



THE DAY MAY NOT BE too far away when the engine in your car will last twice as long as it does today.

Important progress toward that goal is being made by Thompson Products engineers who have uncovered new discoveries in wear patterns of car, truck and tractor engines. To do so, Thompson put man's most modern "tool". . . atomic energy . . . to work in new testing techniques.

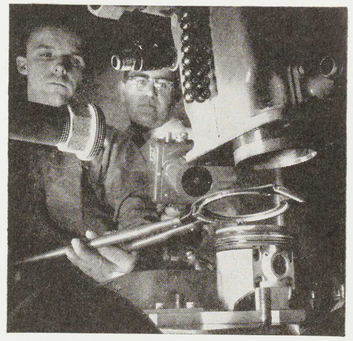
Here's how Thompson does it...

Engine parts to be studied for wear are irradiated in an atomic pile. These radioactive parts are then placed in a test engine. Tiny radioactive metal particles, torn loose by wear, are picked up by lubricating oil and circulated through a scintillator, a measuring device 50 times more sensitive than a Geiger counter.

From these radiation measurements, Thompson engineers are learning *how* parts wear, *where* they wear, and *when* they wear. For example, Thompson is now hard at work studying the side wear tendencies in piston rings after new discoveries about this little-known subject resulted from the new radio-isotope tests.

Other tests to follow involve such vital engine parts as bearings, valves, tappets, rocker arms, connecting rods, gear teeth and pistons.

This important new development typifies the thoroughness and ingenuity of research methods, development skills, and manufacturing facilities that have made Thompson Products one of industry's leaders for more than 50 years. Today such industries as automotive, aviation, agricultural, appliances, metallurgy, hydraulics, pneumatics, electronics and many others count on Thompson. Thompson Products, Inc., General Offices, Cleveland 17, Ohio.



A Thompson engineer installs a radioactive piston ring in a test engine using special tools designed to protect personnel from over-exposure to dangerous radioactive rays. A second engineer closely observes the radiation count to be sure that safety limitations are maintained.

You can count on Thompson Products

MANUFACTURERS OF AUTOMOTIVE, AIRCRAFT, INDUSTRIAL AND ELECTRONIC PRODUCTS. FACTORIES IN SIXTEEN CITIES.

THE Freeman

A Monthly For Libertarians

Editor — FRANK CHODOROV
Managing Editor — MABEL WOOD
Business Manager — IVAN R. BIERLY

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An Editor Dreams

—of the manuscripts he'd like to have;
—of the short story that tells of the human side of freedom and yet is all story, without preachment; not more than 3,000 words (some of the best of Maupassant are half that length);
—of the lilting Gilbertian ballad, pricking the bubble of political pomposity, bringing the bureaucrat down to his true size and exposing the bedbug character of the social uplifter; kindly but well barbed, and above all singable;
—of satire as Mark Twain wrote it, so that readers can enjoy the humor even if they miss the subtle meaning behind it;
—of essays in economics that make liberal use of the parable, free of didactics and constructed of square-toed Anglo-Saxon words and phrases, quite unlike the gobbledegook professors of economics affect to cover up their ignorance of economic realities;
—of the humorous anecdotes pointing up the foibles of political demigods and the inanities of those who would improve everybody except themselves; for example, Artemus Ward or Finley Peter Dunne.
—of the poem that, like "The Prisoner of Chillon," arouses the spirit of freedom that is in all of us, even the Socialist, or, like "Ozymandias," shows up the vacuity of political power.
—of commentaries on the current of thought and manners, written with the critical scalpel of a Matthew Arnold or from the lofty viewpoint of an Albert Jay Nock;
—of analyses of current affairs that do not resort to logic-chopping and yet are as convincing as an Aristotelian syllogism;
—of inspirational pieces that really inspire and therefore do not shriek or scold or point the finger of scorn, and are only mildly and inoffensively hortatory; as, for instance, Lincoln's Gettysburg Address;
—of factual information in the field of public affairs that gets down to the evidence without a long and unnecessary introduction and without a tiresome peroration;
—of easy continuity for easy reading, each sentence leading logically to its successor, each paragraph called for by its predecessor;
—of brilliance of expression without conscious precocity;
—of the editorial millenium.

Among our contributors:

M. STANTON EVANS is of the class of 1955, Yale, where he was something of a conservative rebel. He recently joined the staff of the FREEMAN and, among other chores, edits the "Well Worth Reading" page.

JAMES BURNHAM, author of *The Managerial Revolution,* comes back to the pages of the FREEMAN after an absence of many months. His other books are: *The Struggle for the World, Containment or Liberation?* and *The Web of Subversion.*

PARK CHAMBERLAIN is a California lawyer who, without literary aspirations, wrote something on academic freedom worth publication.